



Range Commanders Council (RCC)

Overview of RCC Organization and Telemetry Group

**Telemetry Group Chair:
Ken Schoeck**



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What is the RCC?

- ◆ **IRIG founded in 1951 and name changed to RCC in 1963**
- ◆ **Mission**
 - **Common needs are identified & common solutions are sought**
 - **Technical standards are established & disseminated**
 - **Joint procurement opportunities are explored**
 - **Technical & equipment exchanges are facilitated**
 - **Advanced concepts & technical innovations are assessed & potential applications are identified**



What is the RCC?

◆ Scope

- **Resolve common problems**
- **Discuss common range matters in an organized forum**
- **Exchange information thereby minimizing duplication**
- **Conduct joint investigations pertaining to research, design, development, procurement, and testing**
- **Coordinate major or special procurement actions**
- **Develop operational test procedures and standards for present and future range use**
- **Encourage interchange of excess technical systems and equipment**



RCC Member Ranges (Army)

- **White Sands Missile Range**
- **Reagan Test Site (formerly KMR)**
- **Yuma Proving Ground**
- **Dugway Proving Ground**
- **Aberdeen Test Center**
- **National Training Center**



RCC Member Ranges (Navy)

- **Atlanta Fleet Weapons Training Center**
- **Naval Air Warfare Center Weapons Division**
- **Naval Air Warfare Center Aircraft Division**
- **Naval Undersea Warfare Center Division**
- **Pacific Missile Range Facility**
- **Naval Strike & Air Warfare Center**



RCC Member Ranges (Air Force)

- **Air Warfare Center**
- **Air Armament Center**
- **Air Force Flight Test Center**
- **30th Space Wing**
- **45th Space Wing**
- **Arnold Engineering Development Center**
- **Goldwater Range**
- **Utah Test and Training Center**



RCC Member Ranges

(Dept of Energy)

- **Nevada Test Site**



RCC Groups

- **Data Reduction and Computer Group**
- **Electronic Trajectory Measurement Group**
- **Frequency Management Group**
- **Optical Systems Group**
- **Range Safety Group**
- **Telecommunications and Timing Group**
- **Telemetry Group**
- **Underwater Systems Group**



RCC Groups

- **Meteorology Group**
- **Range Environmental Group**
- **Signature Measurement Standards Group**
- **Modeling and Simulation Group**
- **Range Airspace Group**
- **Sustainability Working Group**
- **Range Operations Group**



Telemetry Group

- ◆ **Composed of representatives from member ranges and associates (Aerospace, Redstone Arsenal, NNAS, NSWC, NASA Goddard, NASA Dryden and AFRL)**
- ◆ **Member Range Membership: Appointed by the RCC/EC Range member. Must be government employees or support contractors.**
- ◆ **Associate Membership: U. S. government agencies or government contractors. Applicants must send a letter to group chair or Secretariat stating their reasons for applying and attend minimum of two group meetings.**



Telemetry Group

- ◆ **For-Profit Contractors (Vendors):** Invited by group or committee chair to present technical information at general meeting or participate in committee meetings.

- ◆ **Published Documents**
 - **IRIG Standard 106, Telemetry Standards, (two parts)**
 - **RCC Document 118, Test Methods for Telemetry Systems and Subsystems, (four volumes)**
 - **RCC Document 119, Telemetry Applications Handbook**
 - **IRIG Standard 107, Digital Data Acquisition and On-Board Recording Standard**
 - **RCC Document 120, Telemetry Systems Radio Frequency (RF) Handbook**
 - **White Paper - Review of CCSDS Packetized Telemetry Recommendations**
 - **16th - 20th Transducer Workshop**



Committees

- ◆ **Vehicular Instrumentation/Transducer, Ray Faulstich, NAWCAD**
- ◆ **RF Systems, Ron Pozmantier, AFFTC**
- ◆ **Recorder/Reproducer, Joe Lloyd, NAWCAD**
- ◆ **Data Multiplex, Ted Takas, NAWCAD**
- ◆ **Telemetry Networks, Tim Chalfant, AFFTC**



TG Engineering Support Task

- ◆ **The Naval Air Warfare Center Weapons Division, Pt. Mugu, CA is tasked to provide investigative, engineering, and administrative support and test facilities to assist the TG.**
- ◆ **Funded by the member ranges**
- ◆ **Gene Law, NAWCWD PM**



Points of Contact

- ◆ **RCC and Telemetry Group Information (charters, published documents, draft documents, etc.): JIST3 at jcs.mil/**
- ◆ **Telemetry Group:**
 - Chair, Ken Schoeck,**
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 - Vice-chair, Dan Skelly,**
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 - Vice-chair (elect), Tim Chalfant,**
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